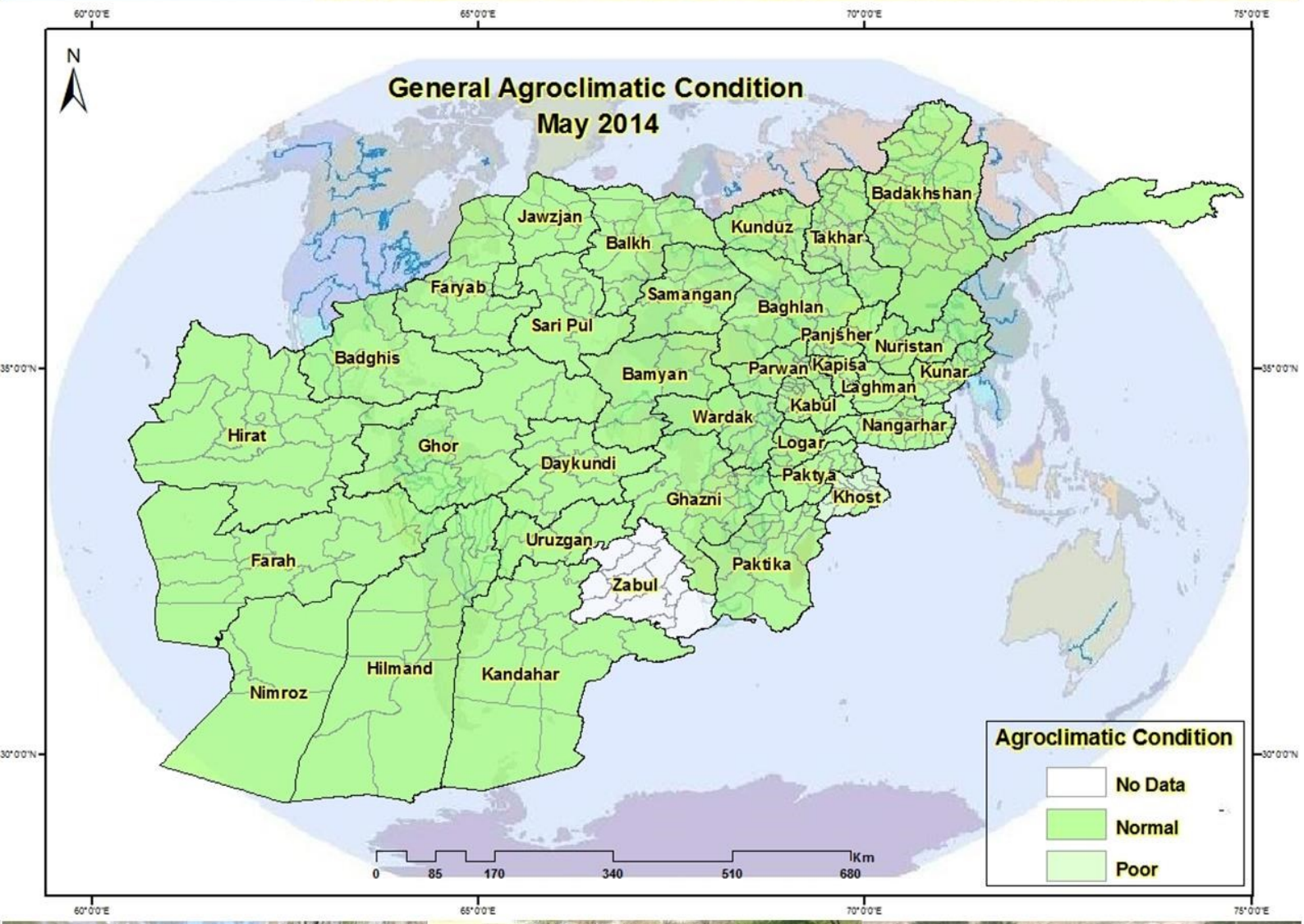
Issue No: 111
May: 2014

The fghanistan grometeorological AAM onthly Bulletin

Topics Crop Information Precipitation Temperature NDVI



Adverse Factor 1

Crop Condition 2

Crop Stage 3

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BULLETIN

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Snowfall Situation

Data Source:

Ministry of Agriculture , Irrigation and Livestock (MAIL), GIS and Agromet Netwrokd and United States Geological Survey (USGS).

Summary

In the entire country growth of wheat is somehow satisfactory. However Pest & disease has been reported in a few areas such as Charikar center of Parwan province and Shimal district of Khost province, weeds has been reported in a few areas such as Waiqal district of Nuristan province, more rainfall has been reported in a few areas such as Khash district of Badakhshan province, Mahmoor Raqi center of Kapisa province and Panjab district of Bamyan province and poor rainfall has been reported in a few areas such as Paghman district of Kabul province, Qala-e- Now center of Badghis province. The crop is reported at Vegetative stage in some parts of the country such as Panjshir, Bamyan, Daykundi and Nuristan provinces. The crop is at flowering stage in some parts of the country such as Parwan, Ghazni and Badakhshan provinces. The crop is at Grain Filling stage in most parts of the country such as Kapisa, Takhar and Paktika Provinces. The crop is at Maturity stage in most parts of the country such as Kunduz, Khost and Farah Provinces. The crop is at harvesting stage in a few parts of the country Such as Hilmand, Nangarhar, Kunar and Laghman Provinces.

During the month of May 2014, above normal rainfall was reported in entire country such as Logar, Ghazni, Khost, Farah and Kandahar provinces. Number of rainy days recorded in the country range from 1 – 10 days. The maximum numbers of rainy days in the country were observed 10 at Paktiya and Bamyan Provinces.

Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Wheat		
				Crop Stage	Crop Condition	Adverse Factor
Central	Kabul	Paghman	Paghman	Flowering	Normal	More Rainfall
		Kabul	Darulaman	Flowering	Normal	Not Existed
		Surubi	Surubi	Maturity	Normal	Not Existed
	Panjsher	Dara	Dara	Vegetative	Normal	Not Existed
		Dashtak	Dashtak	Vegetative	Normal	Not Existed
	Parwan	Syagerd	Gorband	Flowering	Normal	Not Existed
		Charikar	Charikar	Flowering	Normal	Pest and Disease
	Kapisa	Mahmoodraqi	Mahmoodraqi	Grain filling	Normal	More Rainfall
		Kohistan	Kohistan	Grain filling	Normal	More Rainfall
	Wardak	Maidan shehr	Maidan shehr	Flowering	Normal	Not Existed
		Sayed Abad	Sayed Abad	Grain filling	Normal	Not Existed
	Logar	Pole Alam	Pole Alam	Grain filling	Normal	Pest and Disease
	Bamyan	Bamyan	Bamyan	Vegetative	Normal	Not Existed
		Yakawlang	Yakawlang	Vegetative	Normal	Not Existed
		Panjab	Panjab	Emergence	Normal	More Rainfall
		Kohmard	Kohmard	Flowering	Normal	Not Existed
	Ghazni	Andar	Bande Sardi	Flowering	Normal	Not Existed
		Muqar	Muqar	Flowering	Normal	Not Existed
	Dikondy	Dasht	Nili	Grain filling	Normal	Not Existed
		Khideer	Khideer	Vegetative	Normal	Not Existed
East	Nangarhar	Agam	Agam	Maturity	Normal	Not Existed
		Batikot	Ghaziabad	(Harvesting) برداشتن		
		Jalalabad	Farm jaded	Maturity	Normal	Not Existed

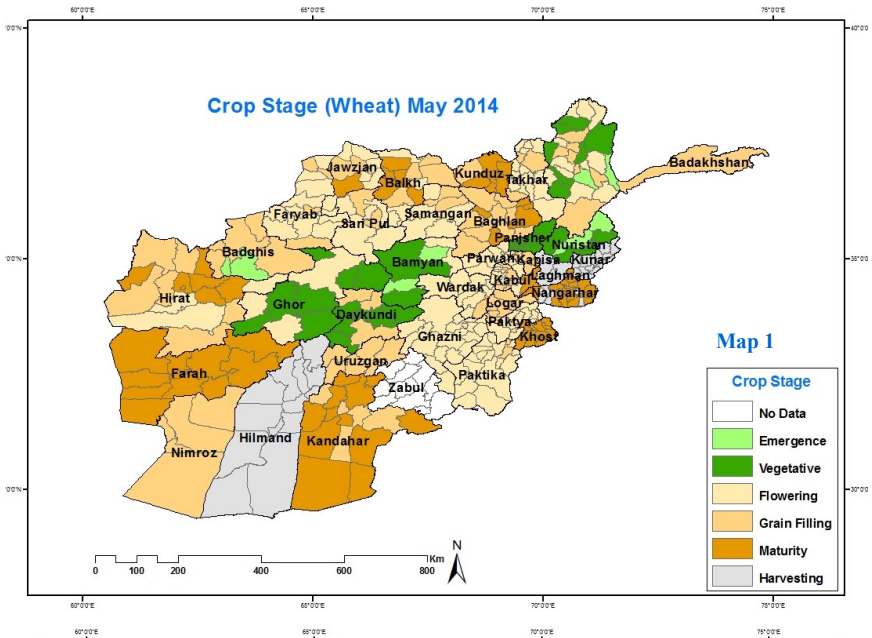
Crop Stage, Crop Condition and Adverse Factor

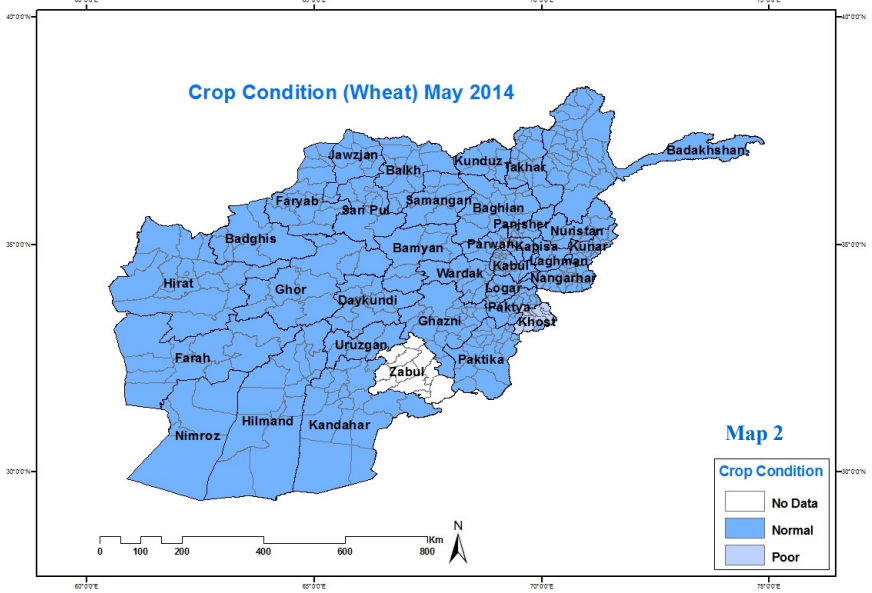
Zone	Province	District	Station	Wheat		
				Crop Stage	Crop Condition	Adverse Factor
East	Kunar	Asmar	Asmar	(Harvesting) برداشتن		
		Asad Abad	Asad Abad			
		Chawkay	Chawkay			
	Laghman	Mihtarlam	Mihtarlam			
		Qarghay	Qarghay			
		Alengar	Alengar			
	Noristan	Paroon	Paroon	Emergence	Normal	Not Existed
		Do Ab	Do Ab	Emergence	Normal	Not Existed
		Norgaram	Norgaram	Vegetative	Normal	Not Existed
		Waigal	Waigal	Vegetative	Normal	Weeds
North East	Takhar	Taluqan	Taluqan	Flowering	Normal	Not Existed
		Rostaq	Rostaq	Grain filling	Normal	Not Existed
		Aqmasjad	Aqmasjad	Grain filling	Normal	Not Existed
	Kunduz	Imam Sahib	Imam Sahib	Maturity	Normal	Not Existed
		Qaliazal	Aqtipa	Grain filling	Normal	Not Existed
		Khan Abad	Khan Abad	Maturity	Normal	Not Existed
		Kunduz	Kunduz	Maturity	Normal	Not Existed
		Archi	Archi	Maturity	Normal	Not Existed
		Chardara	Chardara	Maturity	Normal	Not Existed
		Ali Abad	Ali Abad	Maturity	Normal	Not Existed
	Baghlan	Pulikhomri	Pozaishan	Maturity	Normal	Not Existed
		Doshy	Doshy	Grain filling	Normal	Not Existed
	Badakhshan	Eshkashm	Eshkashm	Emergence	Normal	Not Existed
		Baharak	Baharak	Flowering	Normal	Not Existed
		Argo	Argo	Flowering	Normal	Not Existed
		Khash	Khash	Grain filling	Normal	More Rainfall
		Faiz Abad	Faiz Abad	Grain filling	Normal	Not Existed
South East	Khost	Khost	Khost	Maturity	Poor	Pest and Disease
		Khost	Shimal	Maturity	Poor	Pest and Disease
		Ali Sher	Ali Sher	Maturity	Normal	Not Existed
	Paktia	Zormat	Rohani Baba	Flowering	Normal	Weeds
		Gardiz	Tera	Flowering	Normal	Not Existed
	Paktika	Urgon	Urgon	Grain filling	Normal	Not Existed
		Sharana	Sharana	Flowering	Normal	Not Existed
		Khair kot	Khair Kot	Flowering	Normal	Not Existed

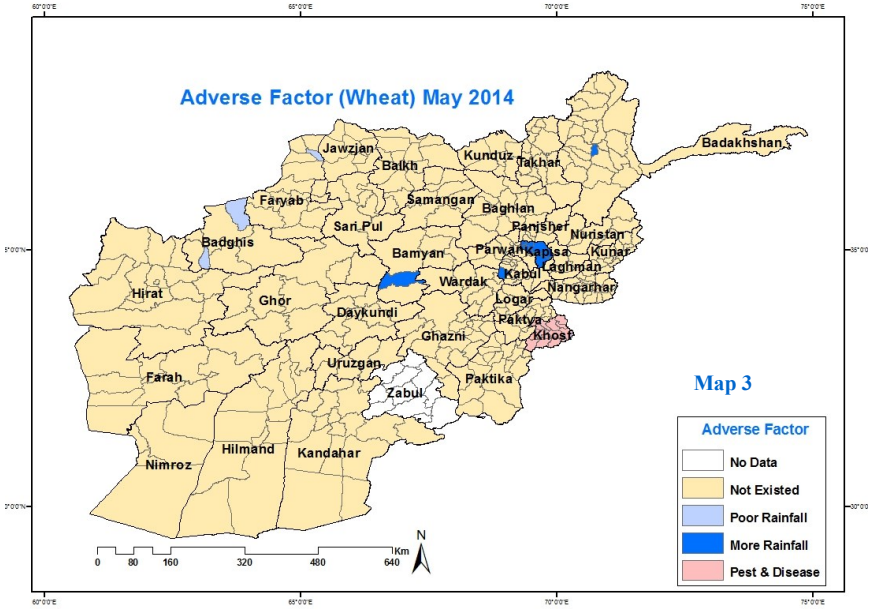
Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Wheat		
				Crop Stage	Crop Condition	Adverse Factor
South	Nimroz	Zaranj	Zaranj	Grain filling	Normal	Not Existed
	Kandahar	Kandahar	Kandahar	Maturity	Normal	Not Existed
		Kohkaran	Kohkaran	Grain filling	Normal	Not Existed
	Urozgan	Tirin Kot	Tirin Kot	Grain filling	Normal	Not Existed
	Hilmand	Nad Ali	Nad Ali	(Harvesting) برداشتن		
		Greshk	Greshk			
		Nawa	Nawa			
		Lashkargah	Bolan			
North	Balkh	Takhta pol	Dehdadi	Maturity	Normal	Not Existed
		Mazar shareef	Mazare shareef	Flowering	Normal	Not Existed
		Nahrishahi	Nahrishahi	Grain filling	Normal	Not Existed
		Dawlat Abad	Dawlat Abad	Maturity	Normal	Not Existed
	Jawzjan	Sheberghan	Sheberghan	Maturity	Normal	Not Existed
		Darzab	Darzab	Flowering	Normal	Not Existed
		Aqcha	Aqcha	Grain filling	Normal	Not Existed
	Saripul	Saripul	Saripul	Grain filling	Normal	Not Existed
		Sancharak	Sancharak	Grain filling	Normal	Not Existed
		Sozmaqala	Sozmaqala	Flowering	Normal	Not Existed
	Faryab	Andkhoy	Andkhoy	Grain filling	Normal	Poor Rainfall
		Garzewan	Garzewan	Flowering	Normal	Not Existed
	Samangan	Aibak	Aibak	Grain filling	Normal	Not Existed
		Sarbagh	Sarbagh	Flowering	Normal	Not Existed
		Dara Souf	Dara Souf	Flowering	Normal	Not Existed
North West	Badghis	Maqur	Maqur	Grain filling	Normal	Not Existed
		Qalainow	Qalainow	Grain filling	Normal	Poor Rainfall
	Ghor	Chaghcharan	Chaghcharan	Flowering	Normal	Not Existed
		Dawlat yar	Dawlat yar	Vegetative	Normal	Not Existed
	Hirat	Shindand	Shindand	Grain filling	Normal	Not Existed
		Hirat	Hirat	Maturity	Normal	Not Existed
		Urdo Khan	Urdo Khan	Grain filling	Normal	Not Existed
		Gwazara	Falahat	Flowering	Normal	Not Existed
	Farah	Farah	Farah	Maturity	Normal	Not Existed

Wheat Crop Stage, Condition and Adverse Factor Maps





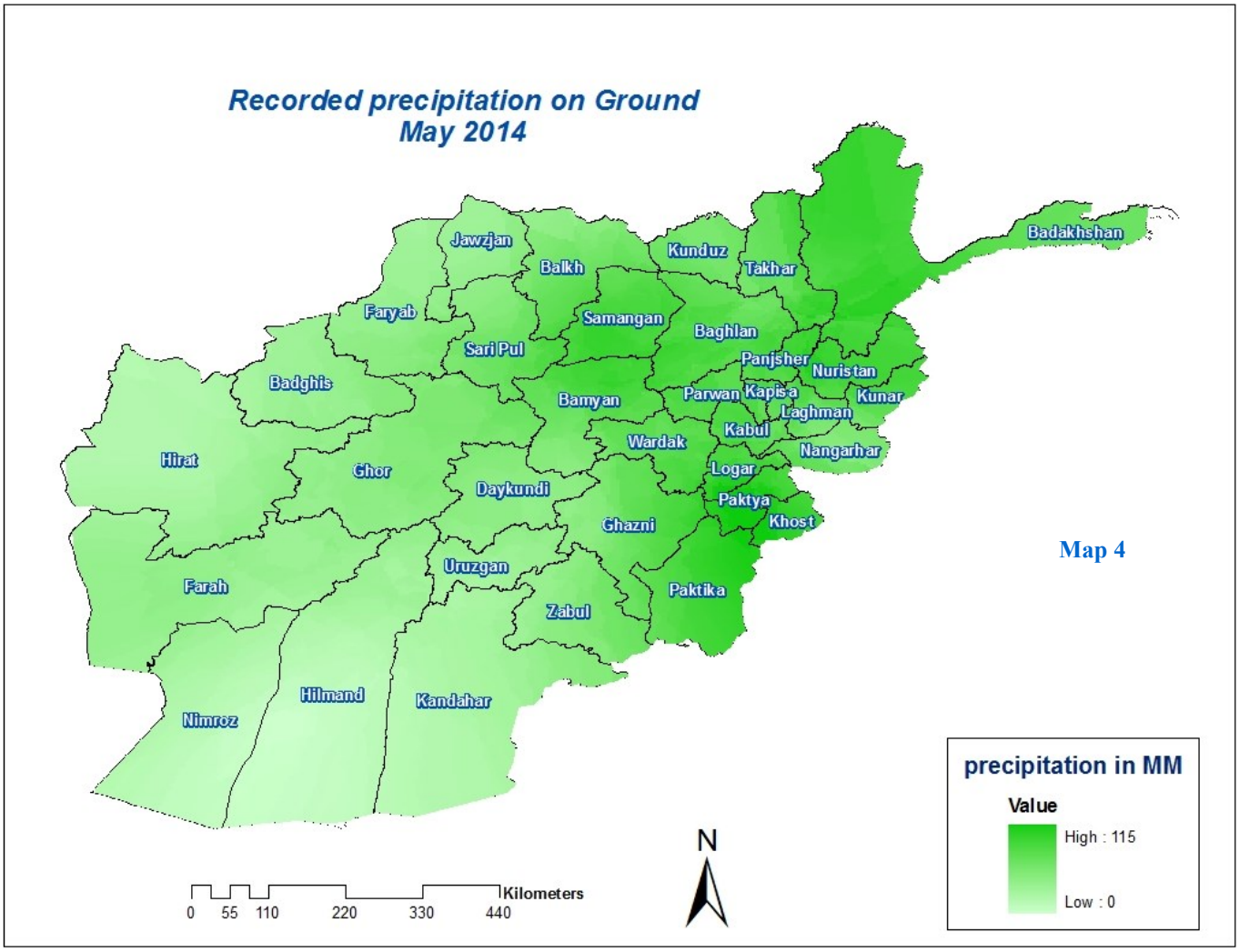


Data Source:Agromet Network

Comparison of monthly rainfall data for the month of May 2014, in contrast to the same month of May 2013, shows significant increase of rainfall in most areas of the country aside a few areas in North east of the country during the month of May 2014, compare to the same month of last year.

Comparison of monthly rainfall data for the month of May 2014 in contrast to the same month of Long Term Average, shows different situation of rainfall in entire country during the month of May 2014 compare to the same month of Long Term Average in most parts of the country it shows increase of rainfall while in other parts of the country especially in a few parts of North, North East and North West it shows decrease of rainfall during the mention period of time.

Widespread rainfall occurred during the month of May 2014, as Map (4) Shows the distribution of rainfall during the month of May 2014, in the entire country as the highest rainfall has occurred in Urgo district of Badakhshan province which was 115 mm.



Map 4

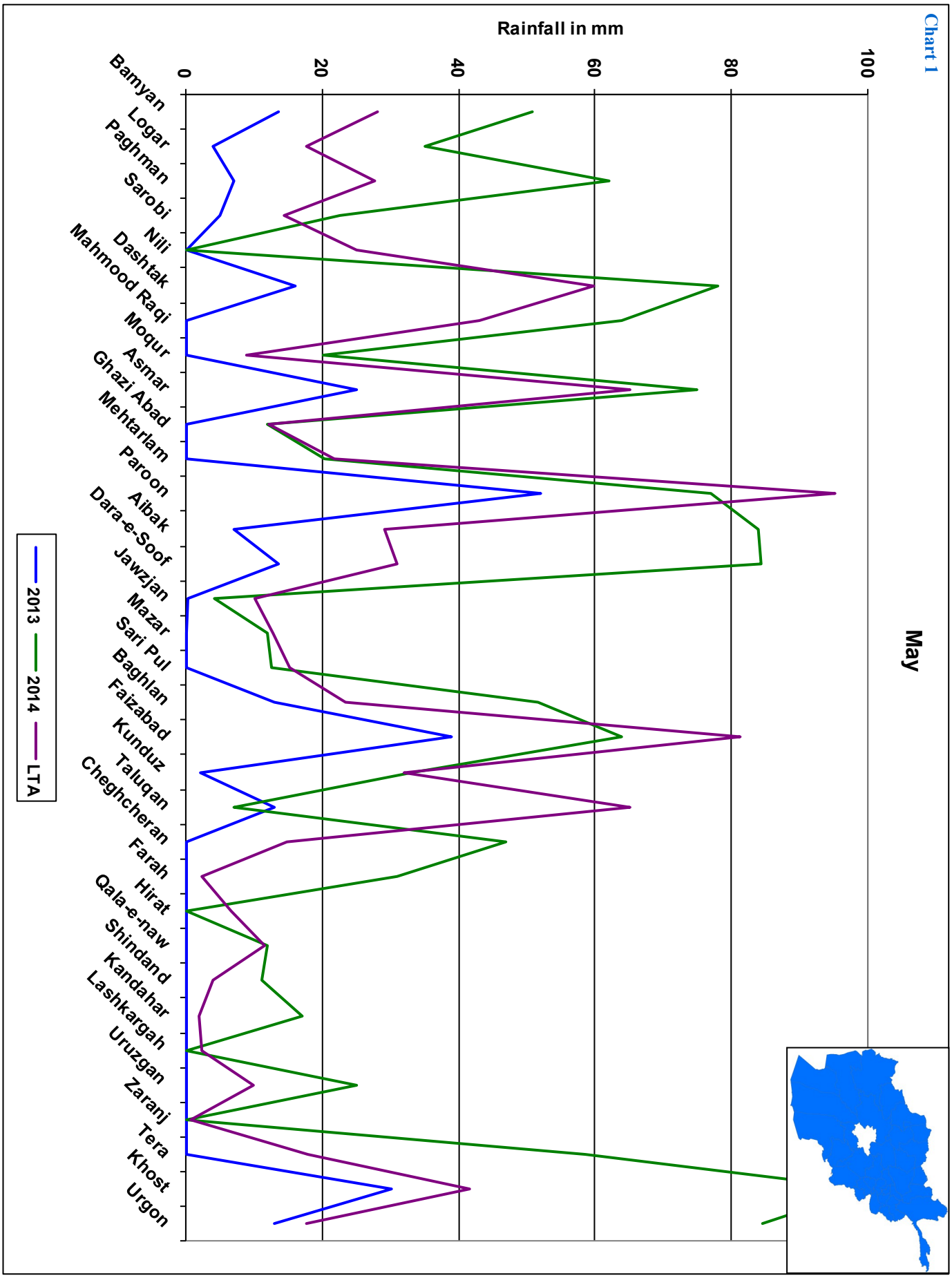
Precipitation

Widespread rainfall has occurred during the month of May 2014, as table 1 shows, during the month of May 2014 in central part to the country Bamyan has received 50.9 mm, Logar 35 mm, Paghman 62 mm, Sarobi 22.5 mm, Nili 0 mm, Dashtak 78 mm, Mahmood Raqi 64 mm and Moqur 20 mm of precipitation .The highest precipitation has been recorded in Dashtak center of Pajsheer province which is 78 mm. In Eastern region Asmar has received 75 mm, Ghazi Abad 12 mm, Mehtarlam 20.4 mm, and Paroon 77 mm. The highest precipitation in this regain has been recorded in Paroon center of Nuristan province which is 77 mm. In Northern region Aibak has received 84 mm, Dara-e-Soof 84.4 mm, Jawzan 4.1 mm, Mazar 12 mm, and Sari Pul 12.5 mm, the highest precipitation in this regain has been recorded in Dara-e-Soof district of Samangan province which is 84.4 mm. In North Eastern region Baghlan has received 51.6 mm, Faizabad 64 mm, Taluqan 7 mm, and Kunduz 33 mm, the highest precipitation in the North Eastern region has been recorded in Faizabad center of Badakhshan province which is 64 mm. In Southern region Kandahar has received 17 mm, Lashkargah 0 mm, Uruzgan 25 mm, and Zaranj 0 mm, the highest precipitation in this region has been recorded in center of Uruzgan province which is 25 mm. In South Eastern region Tera has received 58.5 mm, Khost 100 mm, and Urgon 84.5 mm. In western region Cheghcheran has received 47mm, Farah 31 mm, Hirat 0 mm, Qala-e-Naw 12 mm and Shindand 11 mm the highest precipitation in the respected region has been recorded in Chechcheran center of Ghor province which is 47 mm. In conclusion we can say that, rainfall has two extremes the high extreme has occurred in center of Khost province which is 100 mm during the month of May 2014, and the lowest extreme has occurred in center of Zaranj province which is 0 mm during the month of May 2014. For more information regarding the precipitation for the month of May 2014 please, refer to the below table.

Table 3

Station Name	May			Deviation	Comparison	Prediction
	2013	2014	LTA			
Bamyan	13.6	50.9	28.1	22.8	Above Normal	No Dryness
Nili	0	0	25.1	-25.1	Below Normal	Dryness
Dashtak	16	78	59.9	18.1	Above Normal	No Dryness
Logar	4	35	17.6	17.4	Above Normal	No Dryness
Paghman	7	62	27.6	34.4	Above Normal	No Dryness
Sarobi	5	22.5	14.4	8.1	Above Normal	No Dryness
Mahmood Raqi	0	64	43.1	20.9	Above Normal	No Dryness
Rainfall were increased in 2014 with respect to Long Term Average (LTA) exclude Nili						
Asmar	25	75	65.1	9.9	Above Normal	No Dryness
Ghazi Abad	0	12	12.1	-0.1	Below Normal	Dryness
Mehterlam	0	20.4	21.7	-1.3	Below Normal	Dryness
Paroon	52	77	95.2	-18.2	Below Normal	Dryness
Baghlan	13	51.6	23.3	28.3	Above Normal	No Dryness
Faizabad	39	64	81.4	-17.4	Below Normal	Dryness
Kunduz	2	33	32	1	Above Normal	No Dryness
Rainfall were increased in Asmar, Baghlan and Kunduz with respect to Long Term Average (LTA)						
Taluqan	13	7	65.1	-58.1	Below Normal	Dryness
Aibak	7	84	29.1	54.9	Above Normal	No Dryness
Dara-e-soof	13.5	84.4	31	53.4	Above Normal	No Dryness
Jawzjan	0.2	4.1	10	-5.9	Below Normal	Dryness
Mazar	0	12	12.7	-0.7	Below Normal	Dryness
Sari pul	0	12.5	15.2	-2.7	Below Normal	Dryness
Kandahar	0	17	1.8	15.2	Above Normal	No Dryness
Lashkargah	0	0	2.3	-2.3	Below Normal	Dryness
Uruzgan	0	25	9.9	15.1	Above Normal	No Dryness
Rainfall were increased in Aiback, Dara-e– Soof, Kandahar and Uruzgan with respect to (LTA)						
Zaranj	0	0	0.7	-0.7	Below Normal	Dryness
Tera	0	58.5	17.9	40.6	Above Normal	No Dryness
Khost	30.2	100	41.6	58.4	Above Normal	No Dryness
Moqur	0	20	8.8	11.2	Above Normal	No Dryness
Urgon	13	84.5	17.6	66.9	Above Normal	No Dryness
Farah	0	31	2.3	28.7	Above Normal	No Dryness
Hirat	0	0	6.5	-6.5	Below Normal	Dryness
Qala-e-naw	0	12	11.4	0.6	Above Normal	No Dryness
Shindand	0	11	3.9	7.1	Above Normal	No Dryness
Rainfall were decreased in 2014 with respect to Long Term Average (LTA) exclude Zaranj and Hirat						

Chart 1

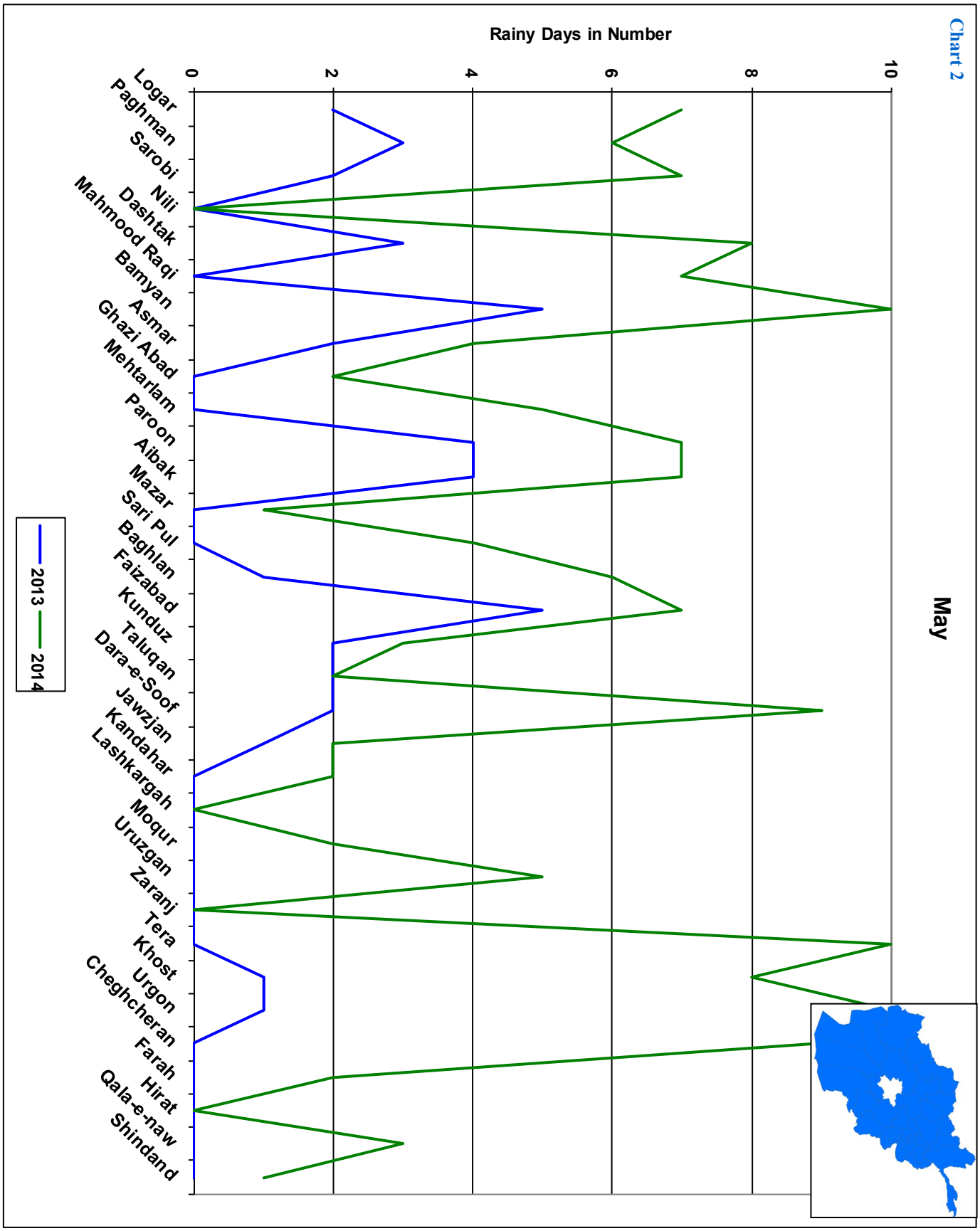

Rainfall in mm
0
20
40
60
80
100
Bamyan
Logar
Paghman
Sarobi
Nili
Dashtak
Mahmood Raqi
Moqur
Asmar
Ghazi Abad
Mehtarlam
Paroon
Aibak
Dara-e-Soof
Jawzjan
Mazar
Sari Pul
Baghlan
Faizabad
Kunduz
Taluqan
Cheghcheran
Farah
Hirat
Qala-e-naw
Shindand
Kandahar
Lashkargah
Uruzgan
Zaranj
Tera
Khost
Urgon
2013
2014
LTA
May

Rainy Days

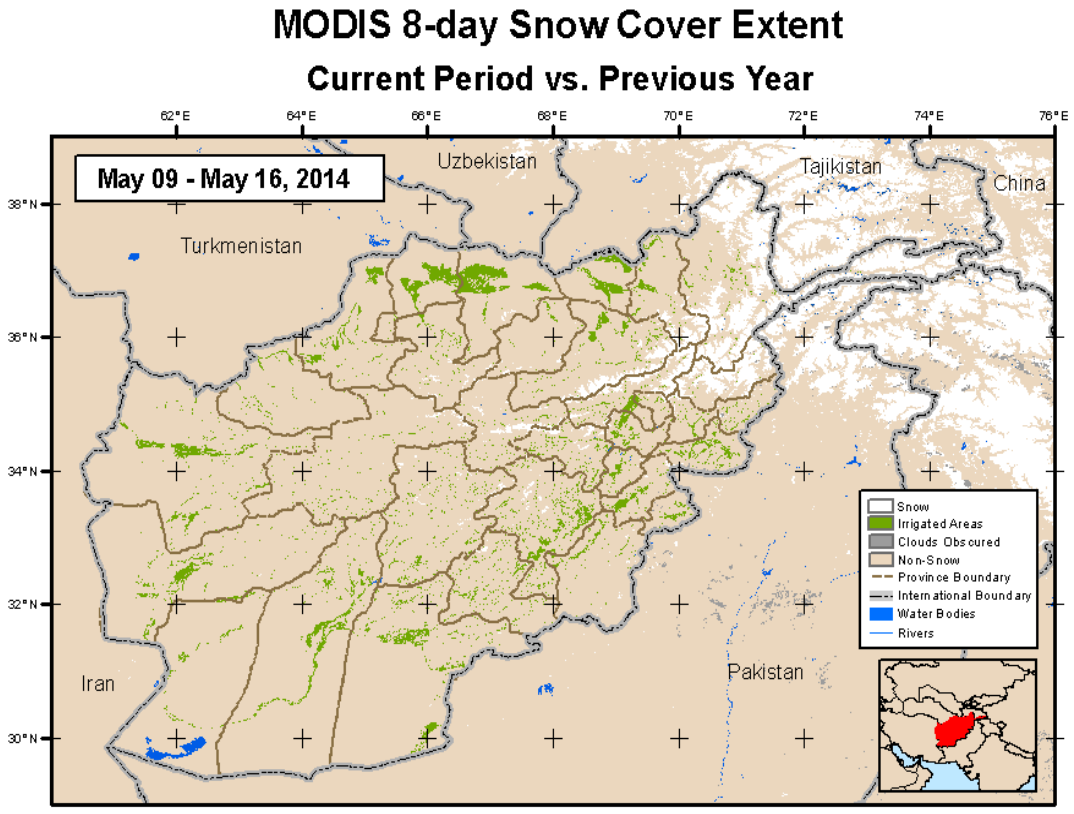
Based on the Below table, the areas of Logar, Paghman, Sarobi, Dashtak, Mahmood Raqi, Bamyan, Asmar, Ghazi Abad, Mehtarlam, Paroon, Aibak, Mazar, Sari Pul, Baghlan, Faizabad, Kunduz, Dara-e-Soof, Jawzjan, Kandahar, Moqur, Uruzgan, Tera, Khost, Urgon, Cheghcheran, Farah, Qala-e- Now and Shindand having higher number of rainy days during the month of May 2014, compared to the same month in 2013. The areas such as Nili, Taluqan, Lashkargah, Zaranj and Hirat are the areas that had equal rainy days in comparison to the same month of last year.

Table 2

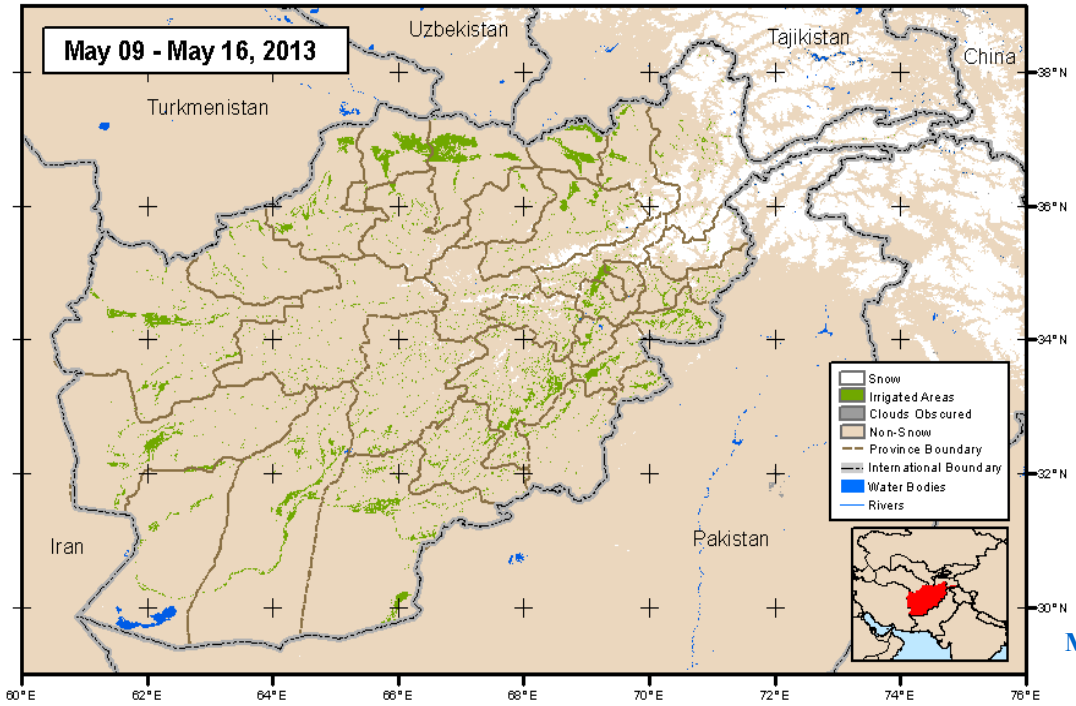
No	Station Name	May		Comparison Prediction with respect to (2013)
		Rainy Days		
		2013	2014	
1	Dashtak	3	8	No Dryness
2	Logar	2	7	No Dryness
3	Paghman	3	6	No Dryness
4	Sarobi	2	7	No Dryness
5	Bamyan	5	10	No Dryness
6	Mahmood Raqi	0	7	No Dryness
7	Nili	0	0	No Change
8	Ghaziabad	0	2	No Dryness
9	Asmar	2	4	No Dryness
10	Mehterlam	0	5	No Dryness
11	Paroon	4	7	No Dryness
12	Aibak	4	7	No Dryness
13	Mazar	0	1	No Dryness
14	Saripul	0	4	No Dryness
15	Baghlan	1	6	No Dryness
16	Faizabad	5	7	No Dryness
17	Kunduz	2	3	No Dryness
18	Taluqan	2	2	No Change
19	Dara-e-soof	2	9	No Dryness
20	Jawzjan	1	2	No Dryness
21	Kandahar	0	2	No Dryness
22	Lashkargah	0	0	No Change
23	Moqur	0	2	No Dryness
24	Uruzgan	0	5	No Dryness
25	Zaranj	0	0	No Change
26	Tera	0	10	No Dryness
27	Khost	1	8	No Dryness
28	Urgon	1	10	No Dryness
30	Farah	0	2	No Dryness
31	Hirat	0	0	No Change
32	Qala-e-naw	0	3	No Dryness
33	Shindand	0	1	No Dryness



Comparison of rainy days for the month of May 2014, with the same month of last year (Chart 2) shows significant increase of rainy days during the month of May 2014 compared to the same on of last year.



Map 5



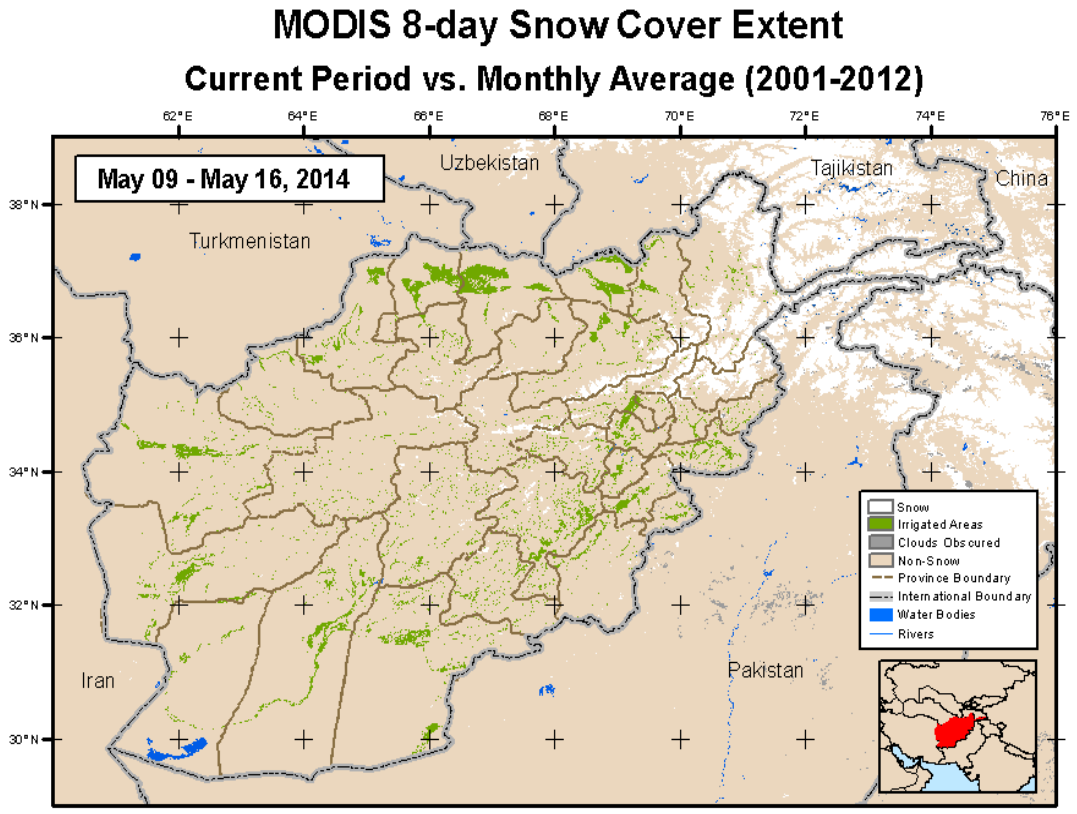
Map 6

Map created by USGS/EROS

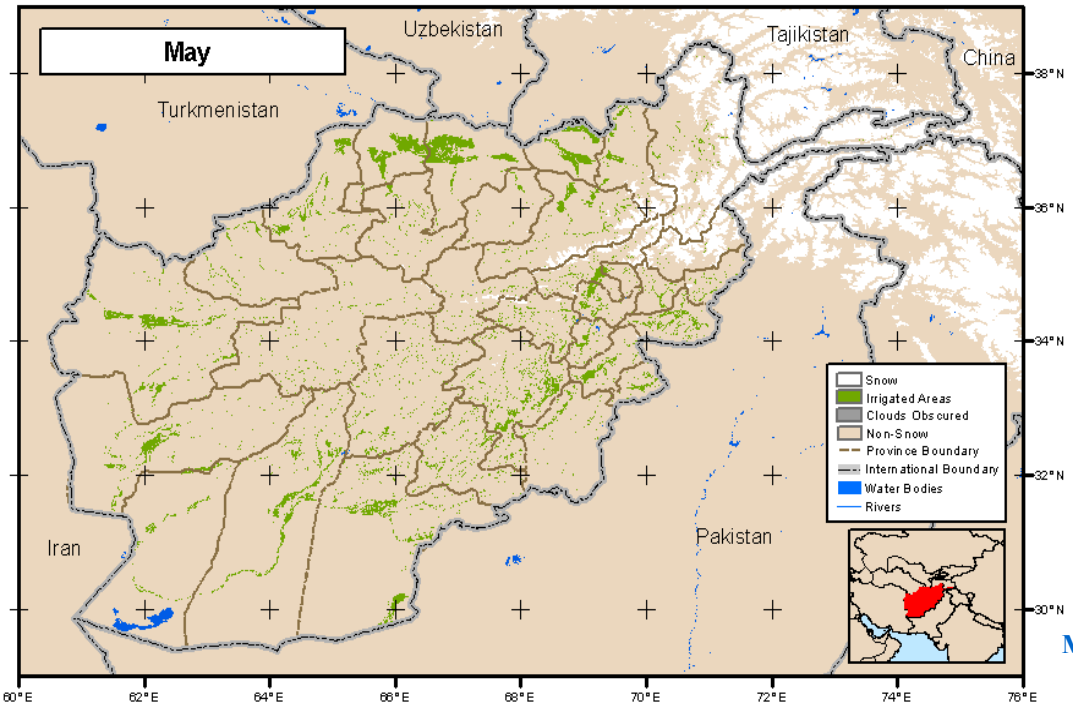
USGS USAID FEWS NET

Comparison of snow extent for the period of (May 09 – May 16) 2014 with the same period in 2013 (Map 5 - 6) shows slightly increase in snow extent during the above mentioned period of time over the same period of time in 2013.

Data Source:USGS



Map 7



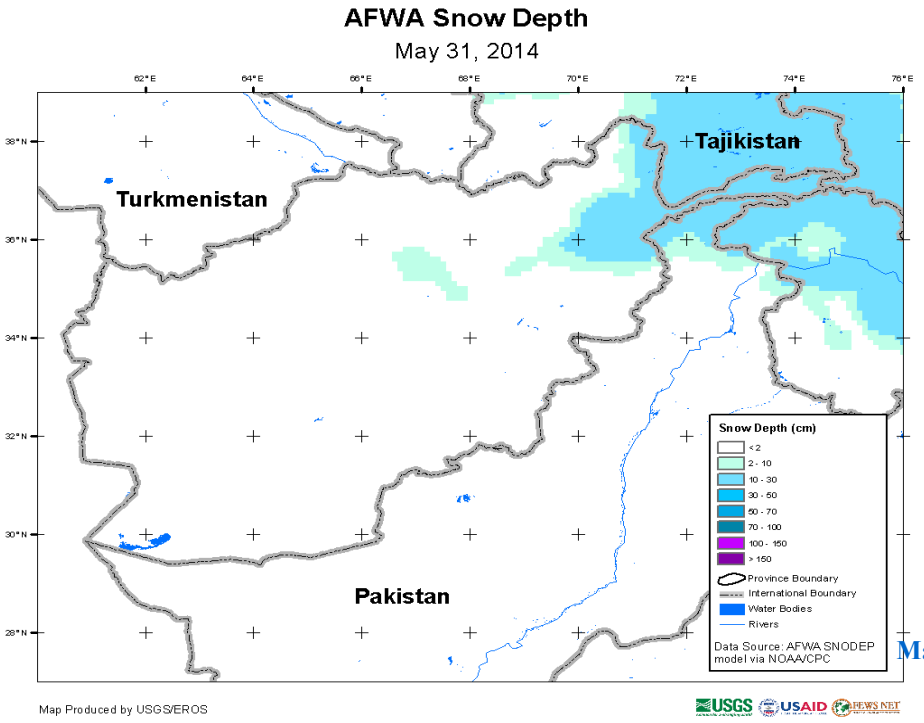
Map 8

Map created by USGS/EROS

Comparison of snow extent for the month of May 2014, with the same month of long term average (Map 7-8) shows slightly increase in snow extent during the month of May 2014, over the same month of long term average.

Data Source:USGS

Afghanistan Snow Depth for month of May 2014



Map 9

Map (9) shows snow depth for the end of May 2014. As map (9) shows the snow depth has been recorded from 10 to 20 cm in some parts of the North East, and 2 – 10 cm in a few parts of Central Highlands and North.

For more information please contact:

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Data Source:USGS